

## CHOATE, HALL & STEWART

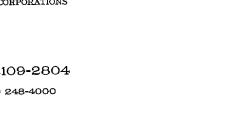
A PARTNERSHIP INCLUDING PROFESSIONAL CORPORATIONS

EXCHANGE PLACE

**53 STATE STREET** 

BOSTON, MASSACHUSETTS 02109-2804

TELEPHONE (617) 248-5000 • FAX (617) 248-4000 WWW.CHOATE.COM



BOX PATENT APPLICATION ASSISTANT COMMISSIONER FOR PATENTS P.O. Box 2327 ARLINGTON, VA 22202

Express Mail No.: EL603009481US Attorney Docket No.: 2003080-0071

Date Filed: December 4, 2001

## UTILITY PATENT APPLICATION TRANSMITTAL

(for new nonprovisional applications under 37 C.F.R. § 1.53(b))

Dear Sir:

Please find enclosed a patent application and papers as follows for:

#### Inventor(s):

Residence (City and State or Foreign Country) Family Name or Surname Given Name (first and middle) Englewood, NJ Danishefsky Samuel J. Old Lyme, CT Bertinato Peter Su New York, NY Dai-Shi New York, NY Meng Dongfang Paramus, NJ Chou Ting-Chao New York, NY Kamenecka Ted San Diego, CA Erik J. Sorensen New York, NY Balog Aaron New York, NY Savin Kenneth A.

Title of the Invention: Synthesis of Epothilones, Intermediates Thereto, Analogues and Uses **Thereof** 

#### A) APPLICATION ELEMENTS:

- 1) 

  Fee Transmittal Form (original and duplicate submitted for fee processing)
- 2) Applicant Claims Small Entity Status (see 37 C.F.R. § 1.27)
  - a) Statement Verifying Small Entity Status (optional)

3) 🛛	Specification	TOTAL PAGES: 112 (87 pp. description; 24 pp. claims; 1 pg. abstract)
	<ul> <li>☑ Descriptive Title of the Invention</li> <li>☑ Cross References to Related Application</li> <li>☑ Statement Regarding Federally Sponsor</li> <li>☑ Reference to sequence listing, a table, or</li> <li>☑ Background of the Invention</li> <li>☑ Summary of the Invention</li> <li>☑ Description of the Drawing (if filed)</li> <li>☑ Detailed Description of the Invention</li> <li>☑ Claim(s)</li> <li>☑ Abstract of the Invention</li> </ul>	ns (if applicable) ed R & D (if applicable)
4) 🛛	<b>Drawing(s)</b> (35 U.S.C. § 113)	TOTAL SHEETS: <u>59</u>
	a)	TOTAL SHEETS: 76
5) 🛚	Oath or Declaration	TOTAL PAGES: <u>8</u>
	a)  Newly Executed (original or copy)	
	b)	* * * * * * * * * * * * * * * * * * * *
	i) Deletion of inventor(s): Signed Stain the prior application, see 37 C.I.	<u> </u>
	c)   Unexecuted	
6) 🗆	Application Data Sheet. See 37 C.F.R. § 1	.76.
7) 🗆	CD-ROM or CD-R in duplicate, large tab (Appendix)	ole or Computer Program
8) 🗆	Nucleotide and/or Amino Acid Sequence necessary)	Submission (if applicable, all are
	a)   Computer Readable Form (CRF)	
	b)   Specification Sequence Listing on:	
	i) CD-ROM or CD-R (2 copies)	); or
	ii) 🗌 Paper	
	c)   Statements verifying identity of above	ve copies

C)

9) Assignment Papers (cover sheet & document(s))									
10) T 37 C.F.R. § 3.73(b) Statement (when there is an assignee)									
11)   Power of Attorney									
12)									
13) M Information Disclosure Statement (IDS)/PTO-1449 (6 pp. total)									
14)  Copies of IDS Citations									
15) 🛭 Preliminary Ame	15) M Preliminary Amendment (11 pp. (includes marked-up copies))								
16) 🛭 Return Receipt P	ostcard (MPEP 503) (spec	cifically itemized)							
17) Certified Copy of	Priority Document(s) (if	foreign priority is claimed)							
18) 🛛 OTHER: (if appl	18)  OTHER: (if applicable, specified below)								
Identificat	ion of Patent Under 37 CI	FR §1.607(c) (1 pg.)							
FOR CONTINUING APPLIC information is provided by	ATIONS: (the appropriate below and in a preliminary								
□ continuation	☐ divisional	continuation-in-part (CIP)							
of prior application no.:	09/874,514								
filed:	June 5, 2001								
examiner:	T. Solola								
group/art unit:	1626								
for continuation or divis	ional applications only:  T	The entire disclosure of the prior							

B) ACCOMPANYING APPLICATION PARTS:

for continuation or divisional applications only: The entire disclosure of the prior application, from which an oath or declaration is supplied as detailed above, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.

#### D.) PRIORITY CLAIM(S):

This application claims the benefit under 35 U.S.C. § 120 of any United States application(s) or PCT international application(s) designating the United States of America listed below:

Application Serial No.

Filing date

Status (patented, pending, abandoned)

09/874,514

June 5, 2001

Pending

This application claims the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Application Serial No.

Filing date

Status (pending, expired, abandoned)

## E) METHOD OF PAYMENT OF FILING FEES FOR THIS APPLICATION:

- ☑ Applicant claims small entity status 37 C.F.R. § 1.27.
- $\boxtimes$  A check is enclosed to cover the filing fees.
- ☑ The commissioner is hereby authorized to charge filing fees or to credit any overpayment to deposit account number 03-1721.

Basic Filing Fee (Small Entity)	\$370.00
Additional Fees:	
Total Number of Claims in excess of 20: (201–20) x \$9	\$1,629.00
Number of Independent Claims in excess of 3:(25–3) x \$42	\$924.00
Multiple Dependent Claims (\$140):	<u>\$140.00</u>
Total Filing Fee:	\$3,063.00

## F) CORRESPONDENCE ADDRESS:

☐ Customer Bar Code Label:

PATENT TRADEMARK OFFICE

Karoline K.M. Shair, Ph.D. Choate, Hall & Stewart 53 State Street Exchange Place Boston, MA 02109 phone: (617) 248-5000 fax: (617) 248-4000

Respectfully Submitted,

Karoline K. M. Shar. Registration No. 44,332

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PTO/SB/17 (11-01)
Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

(\$) 3,063.00

Complete if Known					
Application Number					
Filing Date	December 4, 2001				
First Named Inventor	Danishefsky, et al.				
Examiner Name	T. Solola				
Group Art Unit	1626				
Attorney Docket No.	2003080-0071				

METHOD OF PAYMENT (check all that apply)			FEE CALCULATION (continued)						
X Check Credit card Money Order None				3. ADDITIONAL FEES					
X Deposit Account:			<u>Large</u>	Large Entity Small Entity					
Deposit Account	03-1721			Fee Code	Fee (\$)	Fee Cod	Fee e (\$)	Fee Description	Fee Paid
Number -				105	130	205	65	Surcharge - late filing fee or oath	
Deposit Account Name Choate, Hall & Stewart				127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
		ized to: (check all th	at apply) any overpayments	139	130	139	130	Non-English specification	
	s) indicated belo	b) during the penden		147	2,520	147	2,520	For filing a request for ex parte reexamination	
=		ow, except for the f		112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
to the above ide	•			113	1,840*	113	1,840*	Requesting publication of SIR after	
	FEE CA	ALCULATION		J				Examiner action	
1. BASIC FIL	LING FEE			115	110	215	55	Extension for reply within first month	
Large Entity	Small Entity			116	400	216	200	Extension for reply within second month	
	Fee Fee Code (\$)	Fee Description	Fee Paid	117	920	217	460	Extension for reply within third month	
101 740	201 370	Utility filing fee	\$370.00	118	1,440	218	720	Extension for reply within fourth month	<del></del>
106 330	206 165	Design filing fee	\$510.00	1	1,960	228		Extension for reply within fifth month	
107 510 207 255 Plant filing fee		119	320	219	160	Notice of Appeal	<b></b>		
108 740			120	320	220	160	Filing a brief in support of an appeal		
114 160 214 80 Provisional filing fee		121	280	221	140	Request for oral hearing	<u></u>		
1				138	1,510	138	1,510	Petition to institute a public use proceeding	
SUBTOTAL (1) (\$)370.00			140	110	240	55	Petition to revive - unavoidable		
2. EXTRA C	LAIM FEES	S FOR UTILITY	AND REISSU	E 141	1,280	241	640	Petition to revive - unintentional	
			e from relow Fee Pai	<b>d</b> 142	1,280	242	640	Utility issue fee (or reissue)	
Total Claims	201 -20	·· = 181 × 🗀	3.00] = 1,629	143	460	243	230	Design issue fee	
Independent Claims	25 - 3'	** = 22 × 42	2.00 = 924	144	620	244	310	Plant issue fee	
Multiple Depen	dent	_1	40 = 140	122	130	122	130	Petitions to the Commissioner	
				123	50	123	50	Processing fee under 37 CFR 1.17(q)	<u> </u>
Large Entity		Fee Description	n	126	180	126	180	Submission of Information Disclosure Stmt	
Fee Fee Code (\$)	Fee Fee Code (\$) 203 9	Claims in excess	•	581	40	581	40	Recording each patent assignment per property (times number of properties)	
103 18 102 84	203 9 202 42	Independent class		146	740	246	370	Filing a submission after final rejection (37 CFR § 1 129(a))	
104 280	204 140	Multiple depende	nt claim, if not paid	440	740	240	270	For each additional invention to be	<b> </b>
109 84	209 42	** Reissue indep over original pa		149	740	249	370	examined (37 CFR § 1.129(b))	
110 18	210 9		s in excess of 20	179	740	279	370	Request for Continued Examination (RCE)	
'	ı	and over origin	al patent	169	900	169	900	Request for expedited examination of a design application	
SUBTOTAL (2) (\$) 2,693.00				Othe	Other fee (specify)				
**or number previously paid, if greater; For Reissues, see above *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 0.00					00				

SUBMITTED BY	Complete (if	Complete (if applicable)			
Name (Print/Type)	Karoline K.M. Shair, Ph.D.	Registration No. (Attorney/Agent)	44,332	Telephone	(617) 248-5216
Signature	Langue K. W		w	Date	December 4, 2001

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

## ATTORNEY'S DOCKET NO.: 2003080-0071 (SK-744-CON4)

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant

Danishefsky et al.

Examiner Art Unit

T. Solola 1626

Serial No.

not yet assigned

Filed For

:

December 4, 2001

Synthesis of Epothilones, Intermediates Thereto, Analogues and Uses

Thereof

BOX PATENT APPLICATION ASSISTANT COMMISSIONER FOR PATENTS US PATENT AND TRADEMARK OFFICE P.O. Box 2327 ARLINGTON, VA 22202

EXPRESS MAIL NO: EL603009481US

:

Sir:

## IDENTIFICATION OF PATENT UNDER 37 CFR § 1.607(c)

As required by 37 CFR § 1.607(c), Applicants submit that the above-referenced application, as filed herewith on December 4, 2001, presents a claim (claim 59) that corresponds substantially to claim 1 of patent number 6,156,905, issued December 5, 2001. Applicants would like to point out that US Patent No.: 6,156,905 is being cited in the Information Disclosure Statement filed herewith and was also cited in the Information Disclosure Statements filed in the parent patent applications: 09/874,514, filed June 5, 2001, and 08/986,025, filed December 3, 1997, now U.S. Patent No. 6,242,469, issued June 5, 2001.

Please charge any fees or credit any overpayments to our Deposit Account No. 03-1721.

Respectfully submitted,

aroline K.M. Shaw Karoline K.M. Shair, Ph.D

Reg. No. 44,332

Choate, Hall & Stewart **Exchange Place** 53 State Street Boston, MA 02109 (617) 248-5000

Date: December 4, 2001

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#### **ATTORNEY'S DOCKET NO.:** 2003080-0071 (SK-744-CON4)

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant

Danishefsky et al.

Examiner Art Unit T. Solola 1626

Serial No. Filed not yet assigned

December 4, 2001

For :

Synthesis of Epothilones, Intermediates Thereto, Analogues and Uses

Thereof

BOX PATENT APPLICATION
ASSISTANT COMMISSIONER FOR PATENTS
US PATENT AND TRADEMARK OFFICE
P.O. BOX 2327
ARLINGTON, VA 22202

EXPRESS MAIL NO: EL603009481US

:

## STATEMENT FILED PURSUANT TO THE DUTY OF DISCLOSURE UNDER 37 CFR §§1.56, 1.97 AND 1.98

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, Applicants request consideration of this Information Disclosure Statement.

## PART I: Compliance with 37 C.F.R. §1.97

- A. [X] This Information Disclosure Statement has been filed:
  - 1. [X] within three months of the filing date of the above identified U.S. Patent application other than a continued prosecution application under § 1.53(d);
  - 2. [ ] within three months of the filing date of the entry of the National Stage, as set forth in 37 C.F.R. §1.491, in an International application;
  - 3. [ ] before the mailing date of the first Office Action on the merits in the above-identified application; or
  - 4. [ ] before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.

No fee or certification is required.

### PART II - 37 CFR § 1.98 Content of Information Disclosure Statement:

[X] Applicants hereby make of record in the above-identified application all patents, publications, applications or other information submitted for consideration by the Office listed on the attached form PTO-1449 (modified). The order of presentation of the patents, publications, applications or other information should not be construed as an indication of the importance.

#### Remarks

A copy of each of the above-identified U.S. and foreign patent(s), publication(s), application(s) or other information submitted is enclosed unless otherwise indicated on the attached form PTO-1449 (modified). It is respectfully requested that:

- 1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
- 2. The enclosed form PTO-1449 be signed by the Examiner to evidence that the cited information been fully considered by the Patent and Trademark Office during the examination of this application; and
- 3. The citations for the patent(s), publication(s), application(s), or other information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, Applicants make no representation that a search has been performed, of the extent of any search performed, or that more material information may not exist.

By submitting this Information Disclosure Statement, Applicants make no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

By submitting this Information Disclosure Statement, Applicants make no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by Applicants, the Examiner is urged to form his or her own conclusions regarding the relevance of the cited materials. An early and favorable action is hereby requested.

Respectfully submitted,

Karoline K. M. Shair, Ph.D.

Reg. No. 44,332

Choate, Hall & Stewart Exchange Place 53 State Street Boston, MA 02109 (617) 248-5000 Date: December 4, 2001

Date: <u>December 4, 2001</u> 3341978\_1.DOC